

Claims:

1. A decoy for deceiving radar systems, especially Doppler radar systems,
c h a r a c t e r i s e d in that it comprises a corner reflector where at least
5 one of the surfaces (1) is adapted to be able to obtain a varying reflectivity for radar
radiation, especially with a modulation frequency which in the reflected radiation
causes Doppler sidebands of an extent that is usual for the radar application.
- 10 2. The decoy as claimed in claim 1, c h a r a c t e r i s e d in that the modu-
lation frequency is adapted to be variable.
3. The decoy as claimed in claim 2, c h a r a c t e r i s e d in that the modu-
lation frequency is adapted to be randomly variable.
- 15 a 4. The decoy as claimed in ~~any one of the preceding claims~~, c h a r a c t e r -
i s e d in that the surface (1), whose reflectivity can vary, comprises a non-
reflecting surface provided with a check pattern of lines arranged so close together
that, if they are electrically interconnected in the crossing points, the check pattern
20 reflects the incident radar radiation, and that each crossing point of the check net-
work is provided with a switching element which alternately can electrically con-
nect the lines and electrically disconnect the same.
- 25 5. The decoy as claimed in claim 4, c h a r a c t e r i s e d in that the
switching element comprises four diodes (5) in a diode bridge conducting current
from one conductor to three other conductors and that the check pattern of lines is
adapted to be supplied with a square wave voltage between two opposite sides, viz.
between the side from which direction the diode bridge conducts current and the
opposite side of the check pattern of lines.
- 30 a 6. The decoy as claimed in ~~any one of the preceding claims~~, c h a r a c -
t e r i s e d in that, especially for use as air-borne decoy for protecting the air-
craft, all surfaces are made of a flexible, foldable material, and that the decoy in the
storage state is folded before being put into use.
- 35 7. The decoy as claimed in claim 6, c h a r a c t e r i s e d in that the perma-
nently reflecting surfaces (2) comprise a reflecting foil and the surface or surfaces
(1) having a variable reflection comprise a line-etched dielectric, where the diode
bridges are arranged in the crossing points of the lines.

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- 2 8. The decoy as claimed in claim 6 or 7, c h a r a c t e r i s e d in that it is enclosed by a flexible closed casing (7) of the balloon type and provided with an inflation device, which in operation transforms it from the storage state to the state
- 5 of operation.
- 2 9. The decoy as claimed in claim 8, c h a r a c t e r i s e d in that the inflation device uses a light inert gas, such as helium, which gives an extended time of function in its action as an air-borne decoy.
- add B³*

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